

| Ref # | Hits | Search Query  | DBs   | Default Operator | Plurals | Time Stamp       |
|-------|------|---|---|------------------|---------|------------------|
| S1    | 641  | (INOUE.in. or OSAWA.in.) and (exhaust near4 gas) and (engine)   | US-PGPU B;<br>USPAT;<br>EPO; JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/08/31 16:06 |
| S2    | 28   | (INOUE.in. or OSAWA.in.) and (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4))  | US-PGPU B;<br>USPAT;<br>EPO; JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/08/31 16:06 |
| S3    | 1316 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and (degradat\$4 or degrad\$4 or deteriorat\$4)   | US-PGPU B;<br>USPAT;<br>EPO; JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2004/08/31 16:07 |
| S4    | 508  | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4)   | US-PGPU B;<br>USPAT;<br>EPO; JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2005/01/07 16:24 |
| S5    | 291  | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) | US-PGPU B;<br>USPAT;<br>EPO; JPO;<br>DERWEN T;<br>IBM_TDB | OR               | ON      | 2005/01/07 16:25 |

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| S6 | 192 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature)                        | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/07 16:25 |
| S7 | 28  | (INOUE.in. or OSAWA.in.) and (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4))   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/08/31 16:09 |
| S8 | 135 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/08/31 16:11 |
| S9 | 127 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/08/31 16:11 |

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| S10 | 150 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine or fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.)  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/08/31 16:12 |
| S11 | 55  | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine and fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 09:20 |
| S12 | 61  | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine ) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near2 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.)         | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 09:20 |
| S13 | 84  | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine and fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near2 fuel)  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 09:21 |

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| S14 | 48 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine and fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near2 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.)  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 09:22 |
| S15 | 48 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine or cylinder) near2 (cut\$4 or stop\$4)) and ((fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near2 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.)                      | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 12:49 |
| S16 | 3  | (exhaust near4 gas) and (engine) and (cataly\$4) and ((engine or cylinder) near2 (cut\$4 or stop\$4)) and ((fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near2 fuel) and (cataly\$4 near4 temperature) and (60/272-324.ccls.) and ("180"/\$.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 12:50 |
| S17 | 7  | (exhaust near4 gas) and (engine) and (cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (60/272-324.ccls.) and ("180"/\$.ccls.)   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2004/09/01 12:52 |

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| S18 | 4   | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (60/272-324.ccls.) and ("180"/\$.ccls.)            | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 13:53 |
| S19 | 4   | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (60/272-324.ccls.) and ("180"/\$.ccls.) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 13:55 |
| S20 | 115 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (60/272-324.ccls.)                      | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 13:54 |
| S21 | 200 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near2 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4))   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 13:54 |
| S22 | 308 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4))   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:03 |

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| S23 | 7   | ("5323868"   "5566774"  <br>"5609218"   "6059057"  <br>"6073440"   "6173569"  <br>"6220019").PN.  | US-PGPU<br>B;<br>USPAT;<br>USOCR                                | OR | ON | 2005/01/05<br>13:59 |
| S24 | 5   | ("6389807").URPN.   | USPAT   | OR | ON | 2005/01/05<br>13:59 |
| S25 | 9   | ("5323868"   "5327991"  <br>"5765370"   "5785137"  <br>"5785138"   "5937638"  <br>"5956940"   "5964088"  <br>"6003307").PN.   | US-PGPU<br>B;<br>USPAT;<br>USOCR                                | OR | ON | 2005/01/05<br>14:00 |
| S26 | 12  | ("6173569").URPN.   | USPAT   | OR | ON | 2005/01/05<br>14:00 |
| S27 | 9   | ("5566774"   "5801499"  <br>"5970707"   "6059057"  <br>"6266956"   "6282889"  <br>"6321530"   "6397963"  <br>"6434928").PN.   | US-PGPU<br>B;<br>USPAT;<br>USOCR                                | OR | ON | 2005/01/05<br>14:00 |
| S28 | 0   | ("6792750").URPN.   | USPAT   | OR | ON | 2005/01/05<br>14:01 |
| S29 | 17  | ("5327991"   "5396764"  <br>"5398503"   "5517820"  <br>"5522219"   "5613359"  <br>"5693877"   "5751137"  <br>"6003309"   "6012284"  <br>"6018943"   "6032753"  <br>"6059057"   "6079204"  <br>"6089014"   "6109025"  <br>"6173569").PN.     | US-PGPU<br>B;<br>USPAT;<br>USOCR                                | OR | ON | 2005/01/05<br>14:01 |
| S30 | 10  | ("6321530").URPN.   | USPAT   | OR | ON | 2005/01/05<br>14:02 |
| S31 | 103 | (exhaust near4 gas) and<br>(engine) and (cataly\$4) and ((<br>fuel and engine) near (cut\$4<br>or stop\$4)) and ((degradat\$4<br>or degrad\$4 or deteriorat\$4)<br>near4 cataly\$4) and<br>((degradat\$4 or degrad\$4 or<br>deteriorat\$4)) | US-PGPU<br>B;<br>USPAT;<br>EPO; JPO;<br>DERWEN<br>T;<br>IBM_TDB | OR | ON | 2005/01/05<br>14:05 |

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| S32 | 96 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (fuel near2 (inject\$4 or suppl\$4))   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:06 |
| S33 | 59 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (fuel near2 (inject\$4 or suppl\$4)) and (increas\$4 near3 fuel)                 | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:12 |
| S34 | 48 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (fuel near2 (inject\$4 or suppl\$4)) and (rich near3 fuel)                       | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:06 |
| S35 | 96 | S32 or S33 or S34  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:07 |
| S36 | 12 | (exhaust near4 gas) and (engine) and (cataly\$4) and ((fuel and engine) near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (fuel near2 (inject\$4 or suppl\$4)) and (increas\$4 near3 fuel) and (hybrid\$4) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/05 14:13 |

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| S37 | 384 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near4 (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near cataly\$4)   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/07 16:24 |
| S38 | 218 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel)                                   | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/07 16:25 |
| S39 | 144 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near4 cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature) | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/07 16:25 |
| S40 | 101 | (exhaust near4 gas) and (engine) and (cataly\$4) and (fuel near (cut\$4 or stop\$4)) and ((degradat\$4 or degrad\$4 or deteriorat\$4) near cataly\$4) and ((degradat\$4 or degrad\$4 or deteriorat\$4)) and (increas\$4 near4 fuel) and (cataly\$4 near4 temperature)  | US-PGPU B; USPAT; EPO; JPO; DERWEN T; IBM_TDB | OR | ON | 2005/01/07 16:25 |